

**Road Weather Management Program
Best Practices for Road Weather Management**

PUBLICATIONS LIST

TITLE:

TEMPERATURE AND HUMIDITY EFFECTS ON THE CO-EFFICIENT OF FRICTION VALUE AFTER APPLICATION OF LIQUID ANTI-ICING CHEMICALS

ABSTRACT:

Experiment conducted in Canada to establish the reliance of various anti-icing chemicals based on temperature and humidity; specifically to determine what roll they play on road co-efficient of friction. Research showed that when most anti-icing chemicals transition from liquid to solid, and solid to liquid, a "slurry" phase is formed; producing relatively short-lived reductions in friction co-efficient.

SOURCE(S):

<http://www.wsdot.wa.gov/fossc/maint/pns/pdf/slicknessrpt.pdf>

Keyword(s):

Winter maintenance, Anti-icing/deicing, Air temperature, Humidity, Pavement Friction